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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/718,799	11/24/2003	Eiju Komuro	115518.01	3452	
25944	7590 04/06/2006		EXAM	EXAMINER	
OLIFF & BERRIDGE, PLC			AGUIRRECHEA, JAYDI A		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2834	- -	
			DATE MAILED: 04/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/718,799	KOMURO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jaydi A. Aguirrechea	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 Ma	av 2005					
<i>'</i> = <i>'</i> -	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologod in abbordance with the practice and a	parto dadyto, 1000 O.D. 11, 40	0.0.210.				
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>24 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☒ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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•						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent (PTO-1449 or PTO/SB/08) Notice of Draftsperson's Patent Drawing Review (PTO-948)		atent Application (PTO-152)				
Paper No(s)/Mail Date <u>11/03</u> .	6) Other:	·				

DETAILED ACTION

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1- 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ella (US5872493).

Ella discloses a film bulk acoustic resonator filter (figures 7b, 7c, 8b, 8c) comprising a plurality of film bulk acoustic resonators (7, 7', 12, 12') each having a top electrode (8) a bottom electrode (19), and a piezoelectric layer (9) sandwiched between the top and bottom electrodes (shown in figures 7a and 8a), wherein the top electrodes of at least two of the film bulk acoustic resonators are connected to an associated circuitry. Ella discloses the bottom electrode of the first resonator is electrically coupled to the bottom electrode of each of the second and third resonators and the top electrode of the fourth resonator is coupled to the top electrode of the second resonator.

Art Unit: 2834

Regarding claim 2, Ella shows (figure 7b, 7c, 8b and 8c) the top electrodes of the at least two of the film bulk acoustic resonators connected to the associated circuitry form part of transmission lines of a coplanar waveguide structure.

Regarding claim 3, Ella discloses the invention wherein the at least two of the film bulk acoustic resonators with the top electrodes connected to the associated circuitry have a common bottom electrode.

Regarding claim 4, Ella discloses a ladder-type film bulk acoustic resonator filter comprising at least two series resonators (7, 12) and at least two parallel resonators (7', 12'), each made of a film bulk acoustic resonator having a top electrode, a bottom electrode, and a piezoelectric layer sandwiched between the top and bottom electrodes, wherein the top electrodes of two of the series resonators are connected to associated circuitry.

Regarding claim 5, Ella discloses the top electrodes of the resonators 7 and 12 connected to an associated circuitry forming part of a signal transmission line.

Regarding claim 6, the two resonators connected in series have a common bottom electrode (19).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 571-272-2018. The examiner can normally be reached on M-Th 9-7.

Art Unit: 2834

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAA 3/29/2006

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